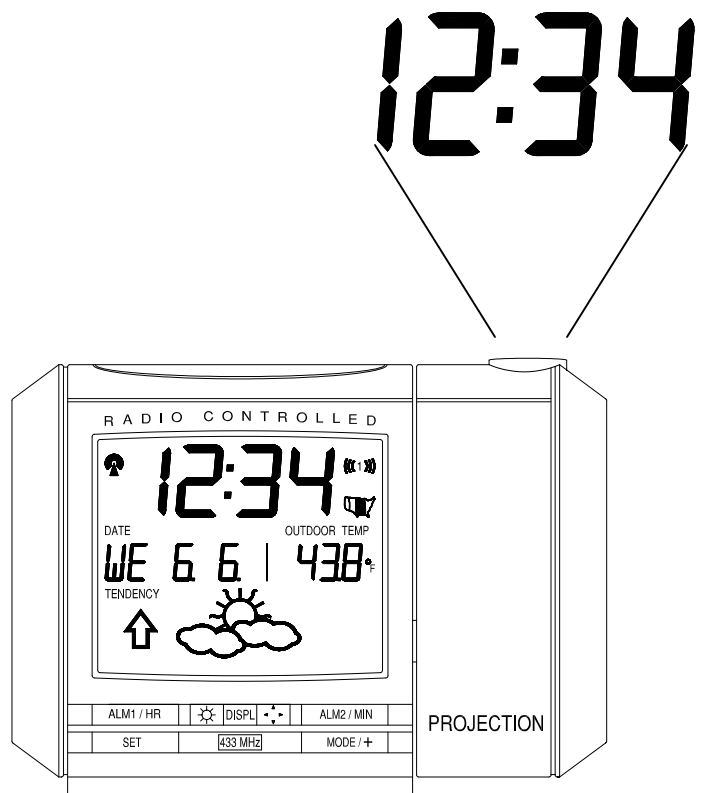


# LA CROSSE<sup>®</sup> TECHNOLOGY

**WT-5432 with TX6 Transmitter**

**433 MHz Radio Controlled Projection Alarm**

**Instruction Manual**



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## **INVENTORY OF CONTENTS**

- 1) WT-5432 Alarm Clock
- 2) TX6U Remote temperature transmitter
- 3) AC adapter/transformer (6V)
- 4) Instruction manual and warranty card.

## **ADDITIONAL EQUIPMENT (not included)**

- 1) Three fresh 1.5V AA batteries (optional for alarm clock)
- 2) Two fresh 1.5V AAA batteries (for remote transmitter)

## **FEATURES OF PROJECTION ALARM**

*Operation of these features is in section III.*

1. Radio-controlled time and date
2. Projection of time and/or remote temperature
3. Forecast icon based on changing air pressure
4. EL backlight
5. Six modes of date/seconds/temperature display
6. Indoor temperature
7. Remote outdoor temperature
8. Dual alarms
- 1) Adjustable snooze

## **ABOUT WWVB (Radio Controlled Time)**

The NIST (National Institute of Standards and Technology—Time and Frequency Division) WWVB radio station is located in Ft. Collins, Colorado, and transmits the exact time signal continuously throughout the United States at 60 kHz. The signal can be received up to 2,000 miles away through the internal antenna in the Projection alarm. However, due to the nature of the Earth's Ionosphere, reception is very limited during daylight hours. The Projection alarm will search for a signal every night when reception is best.

The WWVB radio station receives the time data from the NIST Atomic clock in Boulder, Colorado. A team of atomic physicists is continually measuring every second, of every day, to an accuracy of ten billionths of a second per day. These physicists have created an international standard, measuring a second as 9,192,631,770 vibrations of a Cesium-133 atom in a vacuum. For more detail, visit <http://www.boulder.nist.gov/timefreq.htm>. To listen to the NIST time, call (303) 499-7111. This number will connect you to an automated time, announced at the top of the minute in "Coordinated Universal Time", which is also known as Greenwich Mean Time (GMT). This time does not follow Daylight Saving Time changes. After the top of the minute, a tone will sound for every second. It is possible that your Projection Alarm may not be exactly on the second due to the variance in the quartz. However, the clock will adjust the quartz timing over the course of several days to be very accurate; under 0.10 seconds per day.

## QUICK SET-UP GUIDE

**Important: Insert batteries into the transmitter first, then into the alarm clock. Do not press any buttons until remote temperature is displayed.**

- 1) Insert two AAA batteries into the remote transmitter.
- 2) Insert three AA batteries into the Projection alarm and/or plug into wall
- 3) Wait 10 minutes for WWVB reception and remote temperature.
- 4) If there is no WWVB reception, manually set the time and date (instructions in the Program Mode).
- 5) Program the settings.
- 6) Mount the WT-5432 in a suitable location, where WWVB and transmitter signals can be received.
- 7) Mount the transmitter where remote temperature measurement is desired (on the North side of a house for example).
- 8) The projector will activate and remain on if the alarm clock is plugged in. If only batteries are used, the projector will only be activated when a button is pressed.
- 9) See the “Features” section III. for instructions on projection direction, etc.

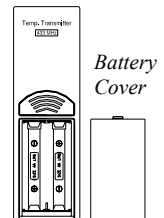
## DETAILED SET-UP GUIDE

**Important: Insert batteries into the transmitter first, then into the alarm clock. Do not press any buttons until remote temperature is displayed.**

### II. BATTERY INSTALLATION

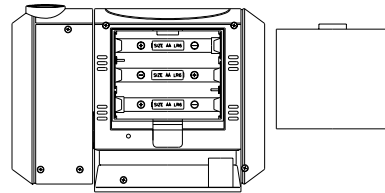
#### A. REMOTE TEMPERATURE TRANSMITTER

1. Remove the battery cover. Observing the correct polarity, install 2 AA batteries. The batteries will fit tightly (to avoid start-up problems make sure that they do not spring free during installation).
2. Replace the battery cover.



#### B. PROJECTION ALARM

1. Remove the battery cover.
2. Observe the correct polarity, and install 3 AA batteries.
3. In addition or instead of inserting batteries, the AC adapter can be used. Simply plug the adapter into the receptacle on the underneath of the alarm clock and then plug in adapter.
4. Replace the battery cover.
5. The projector will activate and remain on if the alarm clock is plugged in. If only batteries are used, the projector will only be activated when a button is pressed. The projection is a red light, not harmful under normal usage, although care should be taken to not look directly into the light.



**Note:** After the batteries have been installed a tone will sound, and the LCD (Liquid Crystal Display) will activate. The indoor temperature and the remote temperature will be displayed (within three minutes). Also, the time will appear as “-:--”. The WWVB search is automatically initiated, and a tower icon appears and flashes with the time colon (no tower icon will appear if the WWVB is too weak to be detected, and the time display will remain on “-:--”). While the WWVB search is being conducted various numbers will appear in the time display. After 10 minutes, the Projection Alarm will either display the WWVB time, or discontinue the search if the time is not found. If the search is cancelled “-:--” will remain in the time LCD. The Projection Alarm will conduct a WWVB search every hour until the first signal is found. Once the WWVB time is found, a search is automatically conducted nightly at midnight. If the signal is found at midnight, the tower icon will remain, if not, another search will take place every hour (until 6:00 am) until the signal is found successfully. If no signal is found during this period, the tower icon will not appear and the clock will search again at 12:00 am the next night.

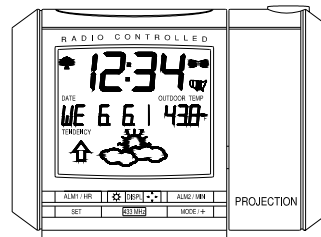
6. Either wait for the WWVB reception or manually set the time and date, making sure to set the correct time zone.

### III. PROGRAM MODE

To enter the Program Mode hold down the “SET” button for 1 second, until the time zone (“-5” default) flashes in the lower left. Press the “SNOOZE” button at any time to exit the Program Mode, or wait approximately 15 seconds for the Projection Alarm to automatically return to normal operation.

#### A. PROGRAMMING SEQUENCE

1. Time Zone Setting
2. Daylight Saving Time ON/OFF
3. Adjustable Snooze
4. Hour Setting
5. Minute Setting
6. Year Setting
7. Month Setting
8. Date Setting
9. Day Setting
10. 12/24-hour Mode



#### B. FUNCTION BUTTONS

There are 7 function buttons located on the front of the Projection Alarm and one on the top. The function buttons are labeled: *ALM1/HOUR*, *ALM2/MIN*, light intensity icon, *DISPL*, light direction icon, *SET*, *MODE/+*, and *SNOOZE* (the top bar).

### C. TIME ZONE SETTING

1. Hold down the “SET” button for 1 second, the time zone (“-5” default) will flash in the Date LCD.
2. Press the “+” button to select the appropriate time zone. There are 13 time zones to choose from (based relative to the international time standard of GMT (“Greenwich Mean Time)).

-4h	Atlantic Time
-5h	Eastern Time (default setting)
-6h	Central Time
-7h	Mountain Time
-8h	Pacific Time
-9h	Alaskan Time
-10h	Hawaiian Time
-11h, -12h	Next two time zones West of HAW
0h	Greenwich Mean Time
-1h, -2h, -3h	Three time zones West of GMT

3. From –5h to –8h, a US map with the highlighted time zone will also be displayed to the right of the time display.
4. Press the “SET” button to confirm the time zone setting, and to advance to DST (Daylight saving time) setting.

### D. DST (DAYLIGHT SAVING TIME) SETTING

**Note:** The DST default is “On”, meaning that the WWVB will automatically change the time according to Daylight Saving Time in the spring and fall. For areas that do not recognize DST changes (Arizona and parts of Indiana) turn the DST “OFF”.

1. Press the “+” button to turn the DST off, as will be indicated by the display of “OFF” in the time LCD.
2. Press the “SET” button to confirm the DST setting, and to advance to select the length of the snooze.

### E. ADJUSTABLE SNOOZE TIME

**Note:** The snooze length can be adjusted from 1 minute to 59 minutes. This duration refers to the length of time the alarm will be disabled when the “SNOOZE” bar is pressed. If set to “0”, activating the snooze will turn off the alarm for 24 hours.

1. Press the “+” button to advance the snooze time from 0 (off) to 59 minutes.
2. Press the “SET” button to confirm the snooze setting, and to advance to manually set the time.

## **F. TIME SETTING**

**Note:** *When the WWVB signal is found, that time will over-ride the manually set time.*

1. Press the “+” button to select the hour. **Note:** *when setting the hour, “PM” will appear to the left of the hour display, if it is AM nothing will be displayed.*
2. Press the “SET” button to confirm the hour setting, and to shift to select the minutes.
3. Press the “+” button to select the minutes.
4. Press the “SET” button to confirm the time setting, and to advance to manually set the date.

## **G. DATE SETTING**

**Note:** *When the WWVB signal is found, that date will over-ride the manually set date.*

1. Press the “+” button to select the year.
2. Press the “SET” button to confirm the year, and to set the month.
3. The month will flash. Press the “+” button to select the appropriate month.
4. Press the “SET” button to confirm the month, and to set the date.
5. The date will flash. Press the “+” button to select the appropriate date.
6. Press the “SET” button to confirm the date, and to set the weekday.
7. The weekday will flash. Press the “+” button to select the appropriate weekday.
8. Press the “SET” button to confirm the calendar settings, and to advance to select either 12 or 24-hour time display.

## **H. 12/24-HOUR SETTING/ SELECTING °F OR °C**

**Note:** *Setting to the 24 hour mode (also known as Military Time) will also change the temperature to display in °C instead of °F.*

1. Press the “+” button to toggle between 12 and 24 hour time.
2. Press the “SET” button to confirm the 12/24-hour time display, and to return to normal operation.

## **IV. FEATURES & OPERATIONS**

### **A. FEATURES**

1. Radio-controlled time and date
2. Projection of time and/or remote temperature
3. Forecast icon based on changing air pressure
4. EL backlight
5. Six modes of date/seconds/temperature display
6. Indoor temperature
7. Remote outdoor temperature
8. Dual alarms
9. Adjustable snooze

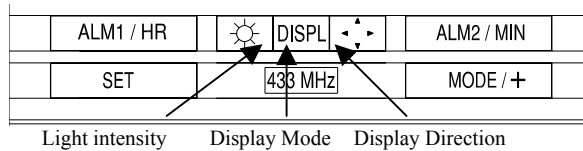
### **B. RADIO-CONTROLLED TIME AND DATE**

1. The projection alarm will automatically search for the time signal upon initial set-up and every night.
2. When the signal is being received, there will be a “tower” icon flashing to the left of the time display.
3. When the time signal has been received successfully, the tower icon will remain steady until midnight.
4. The NIST (National Institute of Standards and Technology—Time and Frequency Division) WWVB radio station is located in Ft. Collins, Colorado, and transmits the exact time signal continuously throughout the United States at 60 kHz. The signal can be received up to 2,000 miles away through the internal antenna in the Projection alarm.
5. Due to the nature of the Earth’s Ionosphere, reception is very limited during daylight hours. The Projection alarm will search for a signal every night when reception is best.
6. The WWVB radio station receives the time data from the NIST Atomic clock in Boulder, Colorado. A team of atomic physicists is continually measuring every second, of every day, to an accuracy of ten billionths of a second per day. These physicists have created an international standard, measuring a second as 9,192,631,770 vibrations of a Cesium-133 atom in a vacuum.
7. For more detail, visit <http://www.boulder.nist.gov/timefreq.htm>. To listen to the NIST time, call (303) 499-7111. This number will connect you to an automated time, announced at the top of the minute in “Coordinated Universal Time”, which is also known as Greenwich Mean Time (GMT). This time does not follow Daylight Saving Time changes. After the top of the minute, a tone will sound for every second.
8. It is possible that your Projection Alarm may not be exactly on the second due to the variance in the quartz. However, the clock will adjust the quartz timing over the course of several days to be very accurate; under 0.10 seconds per day.



### C. PROJECTION OF TIME AND/OR REMOTE TEMPERATURE

1. When plugged into an AC outlet, the projection alarm can continuously project the time and/or remote temperature.
2. When operating on batteries alone, the Projection Alarm will only project when a button is pressed.
3. The projection will auto-focus for display from three to six feet away. A dark surrounding will be necessary to clearly see the projection.
4. The default is projecting time (Hour and Minutes). The Projection Alarm can be set to project the time (M0), remote temperature (M1), or alternating between time and remote temperature (M2) by pressing the “DISPL” button. The selected display mode will flash on the lower left as “M0”, “M1” or “M2”.
5. The direction of the display can also be rotated 360° in 90° increments by pressing the directional button. There is no display on the LCD that signifies the direction.
6. The projector case can be rotated 180° to further help orient the projected display.
7. The intensity of the projection can be adjusted to three different settings as



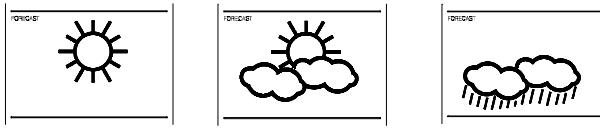
well as turned “off” by pressing the light Intensity button. When turned off, the projection will only come on when a button is pressed. The intensity cannot be set for the projected display when set to “off”. When only batteries are used, the intensity setting is set to “off” with no other options.

### D. FORECAST ICON

1. The weather forecasting feature is estimated to be 75% accurate. The weather forecast is based solely upon the change of air pressure over time. The WT-5432 averages past air-pressure readings to provide an accurate forecast—creating a necessity to disregard all weather forecasting for 12-24 hours after the unit has been set-up, reset, or moved from one altitude to another (i.e. from one floor of a building to another floor). In areas where the weather is not affected by the change of air pressure, this feature will be less accurate.

## 2. WEATHER ICONS

There are 3 possible weather icons that will be displayed in the FORECAST LCD:



*Sunny*—indicates that the weather is expected to improve (not that the weather will be sunny).

*Sun with Clouds*—indicates that the weather is expected to be fair (not that the weather will be sunny with clouds).

*Clouds with Rain*—indicates that the weather is expected to get worse (not that the weather will be rainy).

The weather icons change when the unit detects a change in air pressure. The icons change in order, from “sunny” to “partly sunny” to “cloudy” or the reverse. It will not change from “sunny” directly to “rainy”, although it is possible for the change to occur quickly. If the symbols do not change then the weather has not changed, or the change has been slow and gradual.

## E. EL BACKLIGHT

1. The Projection Alarm has an EL backlight designed for night-viewing. This will light up for 2 seconds whenever a button is pressed.
2. The EL backlight cannot be turned on constantly; this would drain the batteries and burn out the EL.

## F. INDOOR TEMPERATURE

1. The Projection Alarm measures indoor temperature with an internal sensor.
2. This temperature is displayed in °F or °C, depending on the time format (12 or 24 hour mode). When in 12-hour format, the temperature will be in °F. When in 24-hour mode, the temperature will be in °C.
3. The indoor temperature will take time to adjust to the surrounding temperature as the sensor is inside the case.
4. If the remote temperature is placed next to the Projection Alarm, more often than not the temperature will not be exact with one another. This is not a defect, but simply reflects the difference in measuring methods. The remote temperature is designed for changing temperature at a wide range.

## G. REMOTE TEMPERATURE

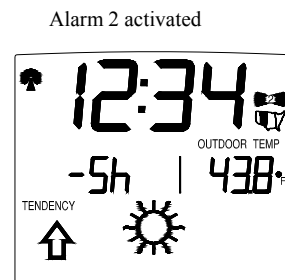
1. The Projection Alarm comes with a remote temperature sensor. When set up properly, the Projection Alarm will receive and display the remote temperature.
2. It is important to power up the transmitter first, then the Projection Alarm. If batteries are removed in the remote, the Projection Alarm MUST be re-set by removing power sources and re-starting.
3. The remote temperature is measured within the remote temperature and transmitted to the Projection Alarm. If outdoor temperature is desired, simply mount the remote transmitter outside. It is recommended to mount the transmitter on the North side of the house away from sources of heat or cold (away from direct sunlight, windows, vents, etc.).
4. The range of the transmitter is 80 feet in open space. While the signal is able to penetrate walls, it will decrease the range. Concrete and metal structures offer the most resistance.
5. The transmitter should not be mounted on a metal surface.
6. The transmitter and Projection Alarm should be kept away from other sources of possible interference including cordless appliances (telephones, baby monitors), microwave ovens, and other strong electrical appliances.
7. The remote temperature is displayed in °F or °C, depending on the time format (12 or 24-hour mode). When in 12-hour format, the temperature will be in °F. When in 24-hour mode, the temperature will be in °C.

## H. TIME ALARM

*The Projection Alarm has two separate alarms for time, “ALM1” and “ALM2”. The alarms have a different sound; ALM1 increases in volume after 25 seconds, and again after 50 seconds. ALM2 is a constant volume. The total duration is 96 seconds for each alarm.*

### 1. SETTING THE ALARM

- a. Press and hold “ALM1” OR “ALM2” for two seconds until the alarm time is flashing.
- b. Press “ALM1/HOUR” to advance the hour, and “ALM2/MIN” to advance the minute. The time will display “PM” if set to PM, and nothing if set to AM.
- c. The Projection Alarm will revert to normal operation when no buttons are pressed for 15 seconds. The alarm is now set and activated.



### 2. ACTIVATING/DEACTIVATING THE ALARM

- a. After entering the alarm setting mode, the alarm is activated (either ALM1 or ALM2).

- b. To toggle between activating and deactivating the alarm, press either the ALM1 or ALM2 briefly. “(((1)))” or “(((2)))” will be displayed to the right of the time display when the alarm is activated.
  - c. When the snooze bar is pressed, the display will scroll through the Alarm 1 and 2 times in the lower left.
3. **TURNING ALARM OFF (WHILE SOUNDING)**
- a. While either alarm is sounding, press the SNOOZE bar to disable the alarm for the set duration (Section II. D.). If the duration is set to “0”, the alarm will be disabled for 24 hours.
  - b. After the SNOOZE bar is pressed, the lower left will display the time remaining on the snooze. The SNOOZE bar may be pressed at any time to restart the snooze duration.
  - c. To disable the alarm for 24 hours, press any button other than SNOOZE or projection keys.

## **I. CHANGING DISPLAY MODE (DAY, SECONDS, AND TEMPERATURE)**

There are six possible display modes to view the day, seconds, and temperature (remote temperature is constantly displayed). To change the display (starting at the default of Day.Month.Date /Remote Temperature):

1. Press the “MODE/+” button. The display should now show *month.day.year/remote temperature*
2. Press the “+” button a second time and the display will now show *seconds/remote temperature*
3. Press the “+” button a second time and the display will now show *alarm1 time/remote temperature*
4. Press the “+” button a second time and the display will now show *alarm2 time/remote temperature*
5. Press the “+” button a second time and the display will now show *indoor temperature/remote temperature*
6. Press the “+” button a second time and the display will now show *day.month.date/remote temperature*

## **V. Mounting the Remote Temperature Sensor**

The remote temperature sensor can be mounted in two ways:

- 1) with the use of screws
- 2) using the adhesive tape

### **A. Mounting with Screws**

1. Remove the mounting bracket from the remote temperature sensor. The bracket should snap off easily.
2. Place the mounting bracket over the desired location.
3. Through the three screw holes of the bracket mark the mounting surface with a pencil.
4. Where marked, start the screw holes into the mounting surface.
5. Screw mounting bracket onto the mounting surface. Ensure that the screws are flush with the bracket.
6. Snap the remote temperature sensor onto the mounted bracket.

### **B. Mounting with Adhesive Tape**

1. With a nonabrasive solution, clean and dry the back of the mounting bracket and the mounting surface to ensure a secure hold. The mounting surface should be smooth and flat.
2. Remove the protective strip from one side of the tape.
3. Adhere the tape to the designated area on the back of the mounting bracket.
4. Remove the protective strip from the other side of the tape.
5. Position the remote temperature sensor in the desired location, ensuring that the projection alarm can receive the signal.

## **VI. Maintenance and Care**

- A.** Extreme temperatures, vibrations, and shock should be avoided to prevent damage to the units.
- B.** Clean displays and units with a soft, damp cloth. Do not use solvents or scouring agents—they may mark and damage the displays and casings.
- C.** Do not submerge in water.
- D.** Immediately remove all low powered batteries to avoid leakage and damage.
- E.** Replace with new batteries only, and of recommended size.
- F.** Opening the casings invalidates the warranty. Do not try to repair the units. Contact La Crosse Technology for Repairs.

## TROUBLESHOOTING

<b>Problem:</b>	The <i>projection</i> is faint
<b>Solution:</b>	<ol style="list-style-type: none"> <li>1) Change intensity setting</li> <li>2) Use AC adapter</li> <li>3) Darken surroundings</li> <li>4) Use fresh batteries (if AC is not used)</li> </ol>
<b>Problem:</b>	The LCD is faint.
<b>Solution:</b>	<ol style="list-style-type: none"> <li>1) Replace the batteries.</li> </ol>
<b>Problem:</b>	“OFL” appears in the indoor temperature LCD.
<b>Solution:</b>	<ol style="list-style-type: none"> <li>1) Move unit to an area with warmer or cooler surrounding temperature. Current surrounding temperatures are outside measuring range.</li> </ol>
<b>Problem:</b>	No reception of WWVB signal.
<b>Solution:</b>	<ol style="list-style-type: none"> <li>1) It may help reception to face the front of the projection alarm in the general direction of Ft. Collins, Colorado.</li> <li>2) Wait overnight for signal.</li> <li>3) Be sure the projection alarm is at least 6 feet from any electrical devices, i.e. TV sets, computers, or other radio controlled clocks.</li> <li>4) Remove batteries for five minutes, reinsert and leave the unit alone overnight without pressing buttons.</li> <li>5) Try leaving batteries in unit, but unplug the AC adapter overnight. The first signal is most difficult to receive clearly, and even a slight interference may cause failure of WWVB reception.</li> <li>6) If problems persist contact La Crosse Technology.</li> </ol>
<b>Problem:</b>	Hour is incorrect (minute and date are correct).
<b>Solution:</b>	<ol style="list-style-type: none"> <li>1) Be sure correct time zone and daylight saving time are selected.</li> </ol>
<b>Problem:</b>	“--.-” appears in outdoor temperature LCD
<b>Solution:</b>	<ol style="list-style-type: none"> <li>1) Check batteries in remote</li> <li>2) If batteries are replaced in remote, the unit must be re-started. Remove all batteries, and then follow start up procedure.</li> </ol>
<b>Problem:</b>	“OFL” appears in the outdoor temperature LCD
<b>Solution:</b>	<ol style="list-style-type: none"> <li>1) Remote temperature is out of range, move closer.</li> <li>2) Check batteries.</li> <li>3) Interference from an outside source (cordless telephone, etc.)</li> <li>4) Contact La Crosse Technology.</li> </ol>

**Note:** For any questions not answered, contact La Crosse Technology with the contact information found at the end of this instructional manual.

## SPECIFICATIONS

<b>Temperature:</b>	
Measuring range:	32°F to 122°F with 0.2°F resolution (indoor) -21.8°F to 140°F with 0.2°F resolution (outdoor) (0°C to 50°C with 0.1°C resolution)
Checking intervals:	Every 10 seconds indoor, 3 times in 10 minutes for remote temperature.
<b>Power source:</b>	
AC Adapter (included)	Input: 120VAC/60Hz Output: DC 6V/100MA
Battery type:	Station: 3 x AA, 1.5V (Alkaline) (optional) Transmitter: 2 x AA, 1.5V (Alkaline)
Battery life:	Approximately 12 months, depending on projection and backlight use
<b>Dimensions (L x W x H):</b>	5.25"W x 3.5"H x 1.25"L

## WARRANTY INFORMATION

La Crosse Technology provides a 1-year warranty on this product. Contact La Crosse Technology immediately upon discovery of any defects covered by this warranty.

Before sending the unit in for repairs, contact La Crosse Technology. The unit will be repaired or replaced with the same or similar model.

This warranty does not cover any defects resulting from improper use, unauthorized repairs, faulty batteries, or the units' inability to receive a signal due to any source of interference.

LA CROSSE TECHNOLOGY WILL NOT ASSUME LIABILITY FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE, OR OTHER SIMILAR DAMAGES ASSOCIATED WITH THE OPERATION OR MALFUNCTION OF THIS UNIT. THIS PRODUCT IS NOT TO BE USED FOR MEDICAL PURPOSES OR FOR PUBLIC INFORMATION. THIS PRODUCT IS NOT A TOY. KEEP OUT OF CHILDRENS' REACH.

This warranty gives you specific legal rights. You may also have other rights specific to your State. Some States do not allow the exclusion of consequential or incidental damages; therefore the above exclusion of limitation may not apply to you.

For warranty work, technical support, or information contact

La Crosse Technology  
1116 South Oak Street  
La Crescent, MN 55947  
Phone: 507.895.7095  
Fax: 507.895.8000

e-mail

[support@lacrosstechnology.com](mailto:support@lacrosstechnology.com)

(warranty work)

[sales@lacrosstechnology.com](mailto:sales@lacrosstechnology.com)

(information on other products)

Website

[www.lacrosstechnology.com](http://www.lacrosstechnology.com)

**THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:**

- 1. THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND**
- 2. THIS DEVICE MUST ACCEPT INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.**

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